



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION 6 SITE NUMBER (to be assigned by HQ) TX06301

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME Southern California Chemical Co., Inc.
B. STREET (or other identifier) 1000 N. First St.
C. CITY Garland TX D. STATE TX E. ZIP CODE 75040 F. COUNTY NAME Dallas

G. SITE OPERATOR INFORMATION

1. NAME Southern California Chemical Co., Inc. (Barry Dees, Mgr.)
2. TELEPHONE NUMBER (214) 272-4528
3. STREET 1000 N. First St. 4. CITY Garland 5. STATE TX 6. ZIP CODE 75040

H. REALTY OWNER INFORMATION (if different from operator of site)

1. NAME Same 2. TELEPHONE NUMBER
3. CITY 4. STATE 5. ZIP CODE

I. SITE DESCRIPTION

Company reclaims spent etching solution from the electronics industry & blends industrial chemicals

J. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.) B. APPARENT SERIOUSNESS OF PROBLEM
☐ 1. HIGH ☐ 2. MEDIUM ☒ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION

1. NAME Robert H Davis, Jr. 2. TELEPHONE NUMBER (512) 477-9901 3. DATE (mo., day, & yr.) 8-3-84

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME Robert H. Davis, Jr. 2. TITLE Staff Engineer
3. ORGANIZATION Engineering-Science, Inc. 4. TELEPHONE NO. (area code & no.) (512) 477-9901

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Observer-Daniel Scheppers	TDWR Enforcement & Field Operations	(512) 477-9901

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Barry Dees	Branch Manager (214) 272-4528	1000 N. First St. Garland, TX 75040

SUPERFUND FILE

JUL 14 1992

REORGANIZED

171899



III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Southern CA Chem. Co.	(214) 272-4528	1000 N. First St., Garland, TX	one-time waste of chromic acid crystals
For representative list of customers, see Attachment A			spent etching sol'n

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Southern CA Chem Co.	(214) 727-4528	1000 N. First St. Garland, TX	spent etchants
Gulf Chem & Metallurgical	(409) 945-4411	Hwy 146 & FM 519 Texas City, TX	acidic etchants
Malone Trucking	(409) 945-3301	21 S. 21st Texas City, TX	one-time bulk, contaminated firewater

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
Gulf Chem. & Metallurgical	(409) 945-4411	P O Box 2130 Texas City, TX 77590 Hwy 146 & FM 519 Texas City, TX
Gulf Chem. & Metallurgical	(409) 233-7882	P O Box 2290 Freeport, TX 77541 302 Midway Rd. Freeport, TX
ASARCO	(303) 486-1772	P O Box 936 Leadville, CO 80461

G. DATE OF INSPECTION

(mo., day, & yr.)

6/21/84

H. TIME OF INSPECTION

1:00-5:05PM

I. ACCESS GAINED BY: (credentials must be shown in all cases)

☒ 1. PERMISSION☐ 2. WARRANT

J. WEATHER (describe)

Clear, 90°F

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF Path sediment	X	Engineering-Science Lab 9204 Gemini Blvd, Houston, TX 77058	Aug. 1984
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)			

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
None		

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS

☒ a. GROUND ☐ b. AERIAL

2. PHOTOS IN CUSTODY OF:

Attached

D. SITE MAPPED?

☒ YES. SPECIFY LOCATION OF MAPS:

Attached

E. COORDINATES

1. LATITUDE (deg.-min.-sec.)

32° 55' 15"

2. LONGITUDE (deg.-min.-sec.)

96° 37' 45"

V. SITE INFORMATION

A. SITE STATUS

☒ 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

☐ 2. INACTIVE (Those sites which no longer receive wastes.)

☐ 3. OTHER (specify):
(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

☐ 1. NO

☒ 2. YES (specify generator's four-digit SIC Code): 5161

C. AREA OF SITE (in acres)

2.4 acres

D. ARE THERE BUILDINGS ON THE SITE?

☐ 1. NO

☒ 2. YES (specify): Process Warehouse and office

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

X	A. TRANSPORTER	X	B. STORER	X	C. TREATER	X	D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION		1. LANDFILL
	2. SHIP	X	2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE	X	3. DRUMS *		3. VOLUME REDUCTION		3. OPEN DUMP
	4. TRUCK		4. TANK, ABOVE GROUND	X	4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
	5. PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
			*Past storer of acidic & chromium bearing wastes		7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY		8. OTHER (specify):
					9. OTHER (specify):		

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this form.

☒ 1. STORAGE ☐ 2. INCINERATION ☐ 3. LANDFILL ☒ 4. SURFACE IMPOUNDMENT ☐ 5. DEEP WELL

☐ 6. CHEM/BIO/PHYS TREATMENT ☐ 7. LANDFARM ☐ 8. OPEN DUMP ☐ 9. TRANSPORTER ☒ 10. RECYCLOR/RECLAIMER

Form not available

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

☒ 1. LIQUID ☒ 2. SOLID ☐ 3. SLUDGE ☐ 4. GAS

B. WASTE CHARACTERISTICS

☒ 1. CORROSIVE ☐ 2. IGNITABLE ☐ 3. RADIOACTIVE ☐ 4. HIGHLY VOLATILE
☒ 5. TOXIC ☐ 6. REACTIVE ☐ 7. INERT ☐ 8. FLAMMABLE

☐ 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

Manifests; TDWR Part A application

VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE		b. OIL		c. SOLVENTS		d. CHEMICALS		e. SOLIDS		f. OTHER	
AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT	
None		None		None		10-20		None		None	
UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE	
15-gallon drums											
<input checked="" type="checkbox"/> (1) PAINT, PIGMENTS	<input checked="" type="checkbox"/> (1) OILY WASTES	<input checked="" type="checkbox"/> (1) HALOGENATED SOLVENTS	<input checked="" type="checkbox"/> (1) ACIDS	<input checked="" type="checkbox"/> (1) FLYASH	<input checked="" type="checkbox"/> (1) LABORATORY, PHARMACEUT.						
(2) METALS SLUDGES	(2) OTHER(specify):	(2) NON-HALOGNTD. SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL						
(3) POTW		(3) OTHER(specify):	(3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RADIOACTIVE						
(4) ALUMINUM SLUDGE		(4) PESTICIDES	(4) FERROUS SMELTING WASTES	(4) MUNICIPAL							
(5) OTHER(specify):		(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(5) OTHER(specify):							
		(6) CYANIDE									
	(7) PHENOLS										
	(8) HALOGENS										
	(9) PCB										
		(10) METALS									
		<input checked="" type="checkbox"/> (11) OTHER(specify): chromic acid crystals									

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SOLID	b. LIQ.	c. VAPOR	a. HIGH	b. MED.	c. LOW	d. NONE			
Chromic acid (CrO ₃)	X			X				1333-82-0	15 small drums	

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

☐ A. HUMAN HEALTH HAZARDS

VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSURE☒ C. WORKER INJURY/EXPOSURE

The potential for worker exposure to strong ammonia and kerosene solvent vapors exists within the enclosed liquid exchange process area, and to chromic acid (solid form) in the discarded drum storage area, also under cover. No incidents were reported or documented.

☐ D. CONTAMINATION OF WATER SUPPLY☐ E. CONTAMINATION OF FOOD CHAIN☐ F. CONTAMINATION OF GROUND WATER☐ G. CONTAMINATION OF SURFACE WATER

VIII. HAZARD DESCRIPTION (continued)

☐ H. DAMAGE TO FLORA/FAUNA☐ I. FISH KILL☐ J. CONTAMINATION OF AIR☐ K. NOTICEABLE ODORS☒ L. CONTAMINATION OF SOIL

In December 1981, the plant experienced a fire in the process area. Fire-water runoff became contaminated and carried heavy metals across and off the property to a containment basin excavated on adjoining property. Subsequent cleanup of the runoff path and pond was overseen by the City of Garland health officials.

☐ M. PROPERTY DAMAGE

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

☐ U. OTHER (specify):

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	3,500	3,500	1,150	less than 1 mile
2. IN COMMERCIAL OR INDUSTRIAL AREAS	200	200	10	less than 1 mile
3. IN PUBLICLY TRAVELLED AREAS	7,000	7,000	0	less than 0.5 miles
4. PUBLIC USE AREAS (parks, schools, etc.)	700	700	3	less than 1 mile

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit) 110 to 160 feet	B. DIRECTION OF FLOW east & southeast (regional)	C. GROUNDWATER USE IN VICINITY 2 abandoned irrigation wells - 1 mile
D. POTENTIAL YIELD OF AQUIFER not known	E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure) 2.5 miles	F. DIRECTION TO DRINKING WATER SUPPLY southeast
G. TYPE OF DRINKING WATER SUPPLY		
<input type="checkbox"/> 1. NON-COMMUNITY < 15 CONNECTIONS* <input checked="" type="checkbox"/> 2. COMMUNITY (specify town): <u>Garland</u>		
<input checked="" type="checkbox"/> 3. SURFACE WATER <input type="checkbox"/> 4. WELL		

VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID☐ P. SEWER, STORM DRAIN PROBLEMS☐ Q. EROSION PROBLEMS☐ R. INADEQUATE SECURITY☐ S. INCOMPATIBLE WASTES

Continued From Page 8

X. WATER AND HYDROLOGICAL DATA (continued)				
H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE				
1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COM- MUNITY (mark 'X')	5. COMMUN- ITY (mark 'X')
None				

I. RECEIVING WATER

1. NAME
Lake Ray Hubbard

☐ 2. SEWERS ☒ 3. STREAMS/RIVERS

☐ 4. LAKES/RESERVOIRS ☐ 5. OTHER(specify): _____

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS
Site drains to a tributary of Rowlett Creek, thence to Rowlett Creek, thence to Lake Ray Hubbard, segment 0820 of the Trinity River Basin, classified for contact and non-contact recreation, propagation of fish and wildlife, and raw water supply.

XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☐ C. 100 YEAR FLOOD PLAIN ☐ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

A. C. VERBURDEN	B. BEDROCK (specify below)	C. OTHER (specify below)
1. SAND		
2. CLAY		
3. GRAVEL		

XIII. SOIL PERMEABILITY

☐ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☐ C. HIGH (1000 to 10 cm/sec.) ☐ D. MODERATE (10 to .1 cm/sec.) ☐ E. LOW (.1 to .001 cm/sec.) ☒ F. VERY LOW (.001 to .00001 cm/sec.) 10⁻⁶ cm/sec

G. RECHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS: _____

H. DISCHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS: _____

I. SLOPE

1. ESTIMATE % OF SLOPE
0-4%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.
Eastward

J. OTHER GEOLOGICAL DATA

The geology of the Dallas County stratigraphy may be found in the attached table (Attachment B). The Commanche Series of the Cretaceous in descending order consists of the Washita Group of limestone, marl, and clay, 350 feet; the Fredricksburg Group of similar lithology, 150 to 200 feet; the Paluxy Formation of the Trinity Group, (See Attachment A)

Continued From Front

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UN- KNOWN
Solid Waste	TDWR	SW30680	8/25/76	---	X		
RCRA	EPA	TXD047823265	7/30/81	---	X		
(Now Registered as non-generator/non-TSD facility with both agencies)							
Air Permit	TACB	5169	unknown	unknown			X

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☐ NONE
 ☒ YES (summarize in this space)

TDWR solid waste compliance inspections of 10/10/80 and 5/27/82 resulted in determination that facility does not generate hazardous wastes. Facility ceased storing hazardous wastes in 1981 and applied as a non-TSD facility by affidavit to TDWR in April 1984. Part A application was withdrawn.

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

Continued From Page 8

X. WATER AND HYDROLOGICAL DATA (continued)**H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE**

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COM- MUNITY (mark 'X')	5. COMMUN- ITY (mark 'X')
None				

I. RECEIVING WATER**1. NAME**

Lake Ray Hubbard

☐ 2. SEWERS☒ 3. STREAMS/RIVERS☐ 4. LAKES/RESERVOIRS☐ 5. OTHER (specify):**6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS**

Site drains to a tributary of Rowlett Creek, thence to Rowlett Creek, thence to Lake Ray Hubbard, segment 0820 of the Trinity River Basin, classified for contact and non-contact recreation, propagation of fish and wildlife, and raw water supply.

XI. SOIL AND VEGETATION DATA**LOCATION OF SITE IS IN:**☐ A. KNOWN FAULT ZONE☐ B. KARST ZONE☐ C. 100 YEAR FLOOD PLAIN☐ D. WETLAND☐ E. A REGULATED FLOODWAY☐ F. CRITICAL HABITAT☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER**XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED**

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. CVERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
	1. SAND				
X	2. CLAY				
	3. GRAVEL				

XIII. SOIL PERMEABILITY☐ A. UNKNOWN☐ B. VERY HIGH (100,000 to 1000 cm/sec.)☐ C. HIGH (1000 to 10 cm/sec.)10⁻⁶ cm/sec☐ D. MODERATE (10 to .1 cm/sec.)☐ E. LOW (.1 to .001 cm/sec.)☒ F. VERY LOW (.001 to .00001 cm/sec.)**G. RECHARGE AREA**☐ 1. YES☒ 2. NO

3. COMMENTS:

H. DISCHARGE AREA☐ 1. YES☒ 2. NO

3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE

0-4%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.

Eastward

J. OTHER GEOLOGICAL DATA

The geology of the Dallas County stratigraphy may be found in the attached table (Attachment B). The Commanche Series of the Cretaceous in descending order consists of the Washita Group of limestone, marl, and clay, 350 feet; the Fredricksburg Group of similar lithology, 150 to 200 feet; the Paluxy Formation of the Trinity Group, (See Attachment A)

TWO CONCRETE SINS INSIDE PROCESS WAREHOUSE

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT (Supplemental Report)		INSTRUCTION Answer and Explain as Necessary.
1. TYPE OF IMPOUNDMENT Two concrete basins for the washing/rinsing of low and empty drums containing ammoniated copper etching solutions.		
2. STABILITY/CONDITION OF EMBANKMENTS None - Diked with concrete and covered by roof.		
3. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc.) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
7. IMPOUNDMENT HAS LINER SYSTEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO concrete sub base		7a. INTEGRITY OF LINER SYSTEM CHECKED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
7b. FINDINGS		
8. SOIL STRUCTURE AND SUBSTRUCTURE Houston Black Urban Land complex 10^{-6} cm/sec		
9. MONITORING WELLS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
10. LENGTH, WIDTH, AND DEPTH LENGTH 8' WIDTH 8' DEPTH 1'		
11. CALCULATED VOLUMETRIC CAPACITY 440 gallons		
12. PERCENT OF CAPACITY REMAINING N/A continually pumped to storage tanks from sumps.		
13. ESTIMATE FREEBOARD 10 - 11"		
14. SOLIDS DEPOSITION <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
15. DREDGING DISPOSAL METHOD N/A		
16. OTHER EQUIPMENT - splash guards - see photo No. 2		

JUNK DRUM STORAGE AREA

STORAGE FACILITY SITE INSPECTION REPORT
(Supplemental Report)INSTRUCTION
Answer and Explain
as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE

☒ YES ☐ NO

STORAGE AREA HAS A CONFINEMENT STRUCTURE

☐ YES ☒ NO

3. EVIDENCE OF LEAKAGE/OVERFLOW (If "Yes", document where and how much runoff is overflowing or leaking from containment)

☐ YES ☒ NO

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS

Approximately 80 drums total on stacked pallets

5. GLASS OR PLASTIC STORAGE CONTAINERS USED

☒ YES ☐ NO some plastic drums

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS

N/A

7. NOTE LABELING ON CONTAINERS

- Ferric Chloride
- Chromic Acid
- Most unmarked

EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS (If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)

☒ YES ☐ NO

Some leakage of Copper Chloride/Copper Sulfate solutions from barrels was apparent (see photo No.3), but Chromic acid crystals were contained.

9. DIRECT VENTING OF STORAGE TANKS

☐ YES ☐ NO N/A

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES (If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)

☐ YES ☒ NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY (If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)

☐ YES ☒ NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES

☒ YES ☐ NO

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS

☐ YES ☒ NO

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding
number on form

Additional Remark and/or Explanation

III. D.

GENERATOR INFORMATION, (cont.)

Representative list of customers which SCCC receives spent etching solution from for reclamation:

Celect Circuits
2702 Industrial Ln, Suite K
Garland, TX 75041
(214) 272-1843

N. Texas Circuit Drilling
3301 Conflans, Suite 406
Irving, TX 75061
(214) 790-7610

Multiplate Co., Inc.
2362 Lufield Rd
Dallas, TX 75229
(214) 243-1557

Lika Southwest
200 Commerce
Azle, TX 76020
(817) 444-2571

Hewlett Packard
815 SW 14th St.
Lower C Receiving
Loveland, CO
(303) 667-5000

ACD Litton Industries
4811 W. Kearney
Springfield, MO 65803
(417) 862-0751

Acidic & Chromium-bearing wastes were received from:

ETS Inc.
1303 Motor St.
Dallas, TX 75207
(214) 620-8390

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding
number on form

Additional Remark and/or Explanation

XIII. J.

sand, shale with 140 feet of section; the Glen Rose Formation (limestone) 150 feet; and the Twin Mountains Formation of sand, shale and clay and basal gravel with 400 to 450 feet of apparent thickness. The Cretaceous Sequence is underlain by undifferentiated Paleozoic rocks at 1500 to 1600 feet below the surface.

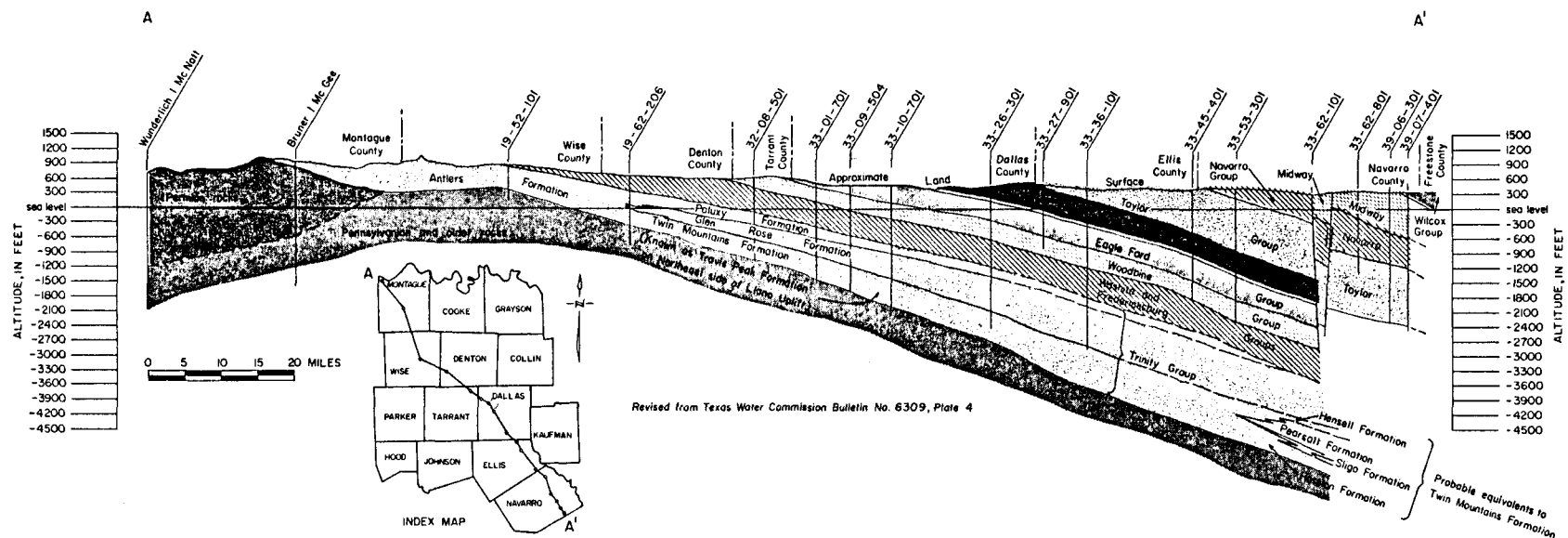
The Cretaceous System, Gulf and Comanche Series forms a southeastward thickening wedge extending into the East Texas basin structural features. Regional dip is east and slightly southeast in the site vicinity ranging from 15 to 40 feet per mile. The Paleocene sequence underlying this dips westward and northeastward at about 40 feet per mile, while the overlying tertiary system beds dip regionally southeastward at a rate of 100 feet per mile from the Mexia-Talco fault, located southeast of the site.

The major aquifers of use in the site area include the outcropping Eagle Ford, Woodbine, Paluxy and Twin Mountains Formations. Relevant geologic tables and maps are provided in Attachment B.

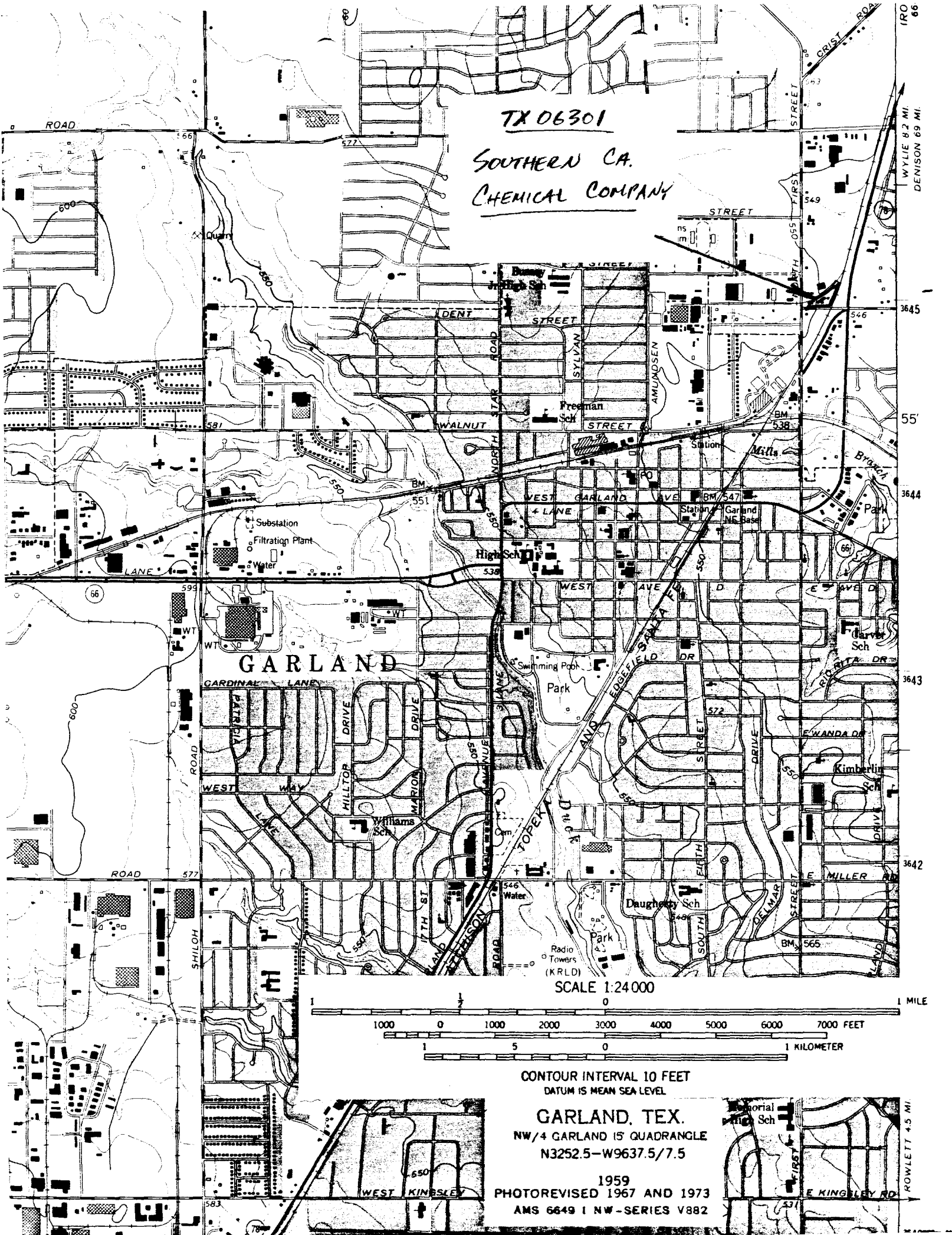
ATTACHMENT B
Geologic Tables and Maps

Table 1.—Stratigraphic Units and Their Water-bearing Properties
Yield, in gallons per minute (gal/min): small, less than 100 gal/min; moderate, 100–1,000 gal/min; large, more than 1,000 gal/min.

Era	System	Series	Group	Stratigraphic units	Approximate maximum thickness (feet)	Character of rocks	Water-bearing characteristics
Cenozoic	Quaternary	Recent		Alluvium	75	Sand, silt, clay and gravel.	Yields small to large amounts of water to wells along the Red River
		Pleistocene		Fluviatile terrace deposits			
	Tertiary	Eocene	Wilcox		100	Fine to medium sand with silt and clay	Yields small quantities of water to wells in the eastern part of the area.
		Paleocene	Midway		150	Gray, calcareous clay, in part silty to sandy	Do.
Mesozoic	Cretaceous	Gulf	Navarro	Kemp Clay Corsicana Marl	300	Fossiliferous clay and hard limy marl	Not known to yield water to wells in the area.
				Nacatoch Sand	500	Fine sand and marl, fossiliferous	Yields small to moderate quantities of water near the outcrop.
			Taylor	Marlbrook Marl Pecan Gap Chalk Wolfe City - Ozan Formations	1,500	Clay, marl, mudstone, and chalk	Yields small quantities of water to shallow wells.
			Austin	Gober Chalk Brownstown Marl Blossom Sand Bonham Formation	700	Chalk, limestone, and marl; fine to medium sand, fossiliferous	Yields small to moderate quantities of water to wells in the northeastern part of the area; very limited as an aquifer.
			Eagle Ford		650	Shale with thin beds of sandstone and limestone	Yields small quantities of water to shallow wells.
			Woodbine		700	Medium to coarse iron sand, sandstone, clay and some lignite	Yields moderate to large quantities of water to municipal, industrial and irrigation wells.
		Comanche	Washita	Grayson Marl - Mainstreet Limestone Pawpaw Formation - Weno Limestone - Denton Clay Fort Worth - Duck Creek Klamichl Formation	1,000	Fossiliferous limestone, marl, and clay; some sand near top	Yields small quantities of water to shallow wells.
			Fredericksburg	Edwards Limestone Comanche Peak Formation	250	Limestone, clay, marl, shale, and shell agglomerates	Do.
				Walnut Formation			
			Trinity	Paluxy Formation	900	Fine sand, sandy shale, and shale	Yields small to moderate quantities of water to wells.
				Glen Rose Formation		Limestone, marl, shale, and anhydrite	Yields small quantities of water in localized areas.
				Twin Mountains Formation		Fine to coarse sand, shale, clay, and basal gravel and conglomerate	Yields moderate to large quantities of water to wells.
Paleozoic				Paleozoic rocks undifferentiated		Sandstone, limestone, shale and conglomerate	Yields small quantities of water in the western part of the area.



Generalized Geologic Cross Section
A-A' Montague to Navarro Counties

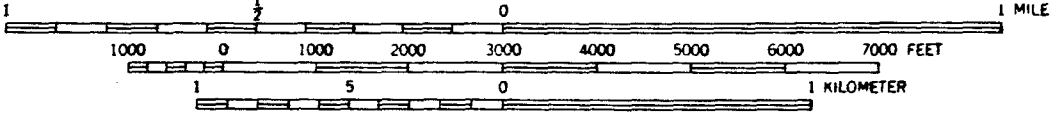


TX 06301

SOUTHERN CA.
CHEMICAL COMPANY

GARLAND

SCALE 1:24 000



CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

GARLAND, TEX.

NW/4 GARLAND 15 QUADRANGLE
N3252.5-W9637.5/7.5

1959
PHOTOREVISED 1967 AND 1973
AMS 6649 I NW-SERIES V882

WYLLIE 8.2 MI.
DENISON 6.9 MI.

ROWLETT 4.5 MI.

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP
CITY OF
GARLAND, TEXAS
DALLAS COUNTY

PANEL 20 OF 30

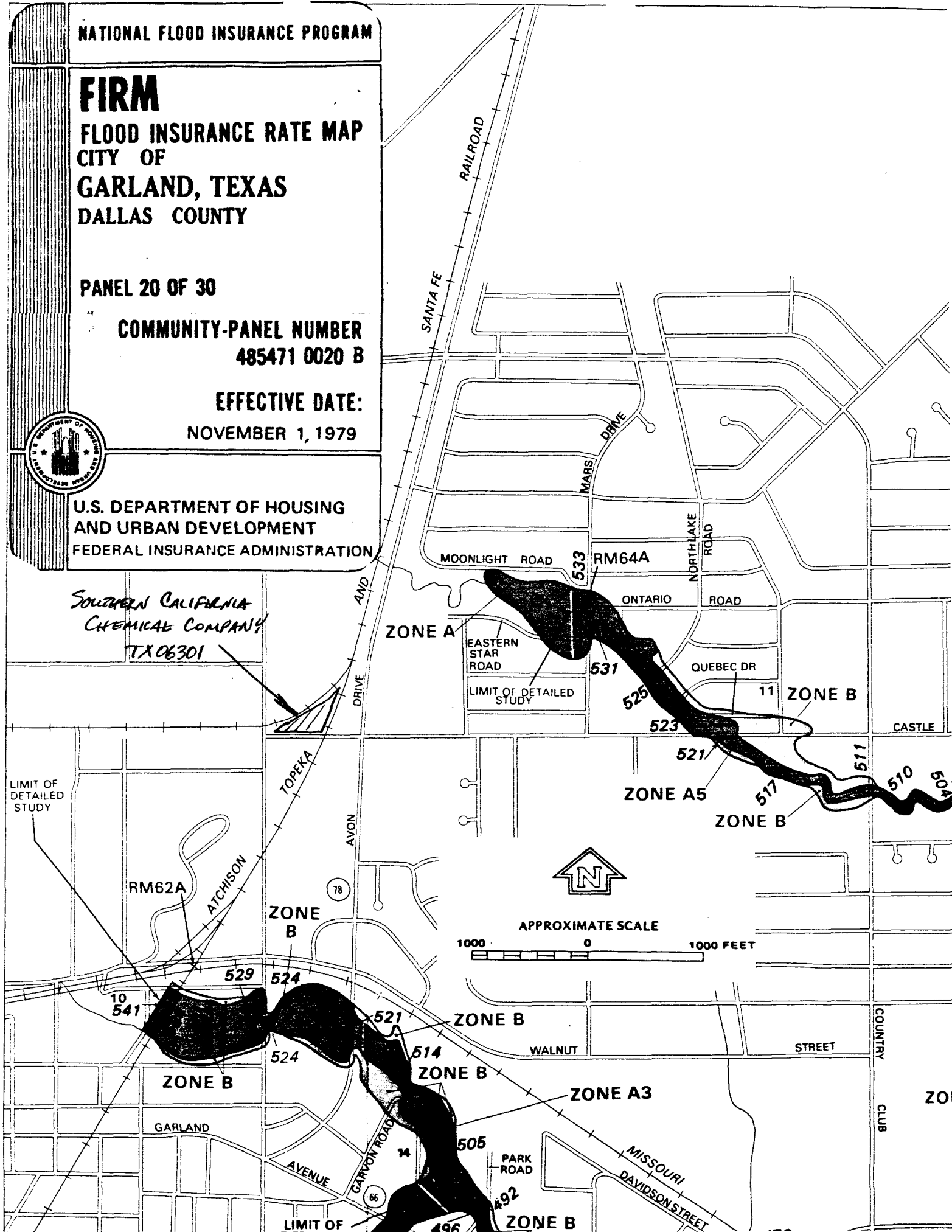
COMMUNITY-PANEL NUMBER
485471 0020 B

EFFECTIVE DATE:
NOVEMBER 1, 1979



U.S. DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

*Southern California
Chemical Company
TX 06301*



ATTACHMENT C
Signed Affidavit of Exclusion April 1984



SOUTHERN CALIFORNIA CHEMICAL CO., INC.

MANUFACTURING CHEMISTS

1000 N. FIRST STREET

GARLAND TEXAS 75040

(214) 272-4528

April 4, 1984

Mr. Jay Snow P.E. Chief
Solid Waste Section
Texas Dept. of Water Resources
1700 N. Congress Ave
Austin, TX 78711

Re: Hazardous Waste Permit
Application No 10791

Solid Waste Registration No 30680

Dear Mr. Snow:

We hereby request that our application be withdrawn.

This request is made because the copper ammonia chloride solution returned to us from our customers is recyclable and reclaimable by us and conforms to 40CFR261.6.

We no longer generate, store or process the following materials that were listed on our application:

1. Ferric Chloride-Ferrous Chloride-Copper Chloride-HCL solution
2. Chromic-Sulfuric-Copper solution

The polishing filters that we use do not contain any properties that would make them a hazardous waste.

Sincerely,

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

Barry Dees
Plant Manager

BD:mf

cc: Christopher Swan

AFFIDAVIT OF EXCLUSION FROM HAZARDOUS WASTE PERMITTING REQUIREMENT

Registration No. 30680
Application No. 10791
(Dept. Use Only)
Facility Name Southern California Chemical
County of Dallas

Barry N. Dees

being duly sworn, deposes and says:

I am Branch Manager of Southern California Chemical
Title (Owner or Principal Officer) Facility Owner
Co., 1000 N. First St., Garland, TX 75040
and Address

This affidavit is being executed for the purpose of notifying the Executive Director of the Texas Department of Water Resources that the named facility does not require a hazardous waste permit because:

Check appropriate box(es):

- ☒ No hazardous waste is stored, processed or disposed on-site
- ☐ The facility qualifies for the "Accumulation Time" storage exclusion of Texas Administrative Code, Section 335.69
- ☐ The facility qualifies for the "Small Quantity Generator" exclusion of Texas Administrative Code, Section 335.2(e)
- ☐ The facility qualifies for the "Elementary Neutralization Unit" exclusion of Texas Administrative Code, Section 335.2(f)
- ☐ The facility qualifies for the "Wastewater Treatment Unit" exclusion of Texas Administrative Code, Section 335.2(f)
- ☐ Other (Explain with an attachment and reference TDWR rule)

Barry N. Dees
Signature

Sworn to before me this 4 day of 4, 1984.

Shirley D. DeWitt
Notary Public in and for
Dallas County, Texas

My commission expires 7-25-85

RCRA 3012 INSPECTOR COMMENTS
SOUTHERN CALIFORNIA CHEMICAL CO.
GARLAND, TX
TX06301

INTRODUCTION

On June 21, 1984 Robert H. Davis, Jr. of Engineering-Science, accompanied by TDWR representative Daniel Scheppers, conducted a RCRA 3012 site inspection of the Southern California Chemical Co. (SCCC) facility in Garland, Texas. The inspection lasted approximately 4 hours and consisted of an interview with the branch manager Barry Dees, a review of records, site surveillance, and the collection of samples.

BACKGROUND

SCCC began operations at a different location (also in Garland, Texas) in 1969. The facility moved to the present 2.4 acre location in 1978. From 1969 to 1979 they were involved in the manufacture of acid etchant solutions from raw materials for sale to the electronics industry. From 1979 to 1981 spent acid etchant solutions were received and stored in drums on-site until their eventual off-site sale/disposal to Gulf Chemical and Metallurgical in Texas City, TX or ASARCO mining operations in Leadville, Colorado. Since 1979 the primary process has been the removal/recovery of copper from spent alkaline ammonium chloride etchant solution which is received from customers in drums and tank trucks. Process additives include a kerosene based extractant, sulfuric acid, diammonium phosphate, ammonia, and ammonium chloride. Products include the copper-free alkaline ammonium chloride etchant solution, copper sulfate crystals, an ammonium chloride solution, liquid solder brightener (NH_4Cl , HCl , Thiourea), and sodium chlorite, each with their respective markets. Recycle of process chemicals is very extensive at the plant and no solid wastes or discharges are normally generated. The plant employs 19 workers, operates on 24 hour basis, and has an estimated production rate of 60,000 gallons/mo. of copper-free solution and 3 lbs/minute of CuSO_4 .

The site apparently entered the HAZSIT System as the result of its 1980 RCRA notification as a storer and transporter of acidic and chromium-bearing

wastes and subsequent uncertainty on the part of TDWR as to the proper classification and waste management practices of the facility. The site owner had notified that K050 wastes were handled. Through the interview it was established that this designation was erroneous; the waste intended for description was stored drums of spent chromic acid etchant. The preliminary assessment of January 1984 recommended a site inspection because of incomplete file information related to "pond analyses" and because, according to TDWR personnel, the facility would probably not receive annual compliance inspections. The affidavit of exclusion submitted to TDWR in April 1984 is included here as Attachment C.

Through the interview, it was learned that the plant had experienced a fire in December 1981 which was put out by the Garland Fire Department. To contain the contaminated firewater, a pond was excavated by City of Garland workers at a point down gradient on the property of Rodeway Express. The water was later removed by Malone Trucking to Gulf Chemical and Metallurgical in Texas City. An analysis of residual pond water was conducted to verify the clean-up effort. Contaminated soils in the drain path were also reportedly removed to the Garland landfill.

A number of shipping tickets and bills of lading were observed and appeared to be properly completed. It was noted that for the period 1979-81, wastes received from customers (spent acidic etchants) were manifested with SCCC as the TSD facility. SCCC then sold these materials to Gulf Chemical and Metallurgical in Texas City (some bills of lading were observed).

SITE SURVEILLANCE NOTES

The inspectors were accompanied by Barry Dees. Inside the concrete-floored warehouse, raw material and product storage tanks (upright, 4000-5600 gal, Photo No. 1) were observed inside diked areas. Spillage was apparent but contained. Plastic barrels marked "non-regulated wastes" of spent ammoniated solvent to be processed were stacked on pallets.

The drum washing basin was also inside the warehouse and was divided into two sections, one for draining heels and one for rinsing. (Photo No. 2) The basins and adjoining drain sumps were underlain with concrete to prevent release to the ground surface.

We proceeded out of the warehouse to a paved, covered area containing open drums of off-spec CuSO_4 crystals and empty drums. Four upright storage tanks for incoming spent etchant were located in a diked area. A covered area adjacent to the outer warehouse wall contained stacked pallets of discarded drums (Photo No. 3). Among them were approximately 15 15-gallon drums of chromic acid crystals. These drums are actually a one-time waste; Mr. Dees indicated that their ultimate disposition was uncertain at this time.

The former drum storage area for spent acidic etchants (chromium-bearing) was observed next. This diked area was inside the warehouse and presently contains CuSO_4 solution tanks but no drums (Photo No. 4).

We obtained respirators and entered the enclosed Liquid Ionic Exchange (LIX) process room. It contained about 10 above-ground vats for continuous operation of the solvent extraction and copper recovery process. The floor was concrete and sloped to the SE corner toward a recycle sump. Ammonia and solvent (kerosene) vapors were strong in this area and equipment corrosion and spillage were apparent.

Outside this building evidence of minor seepage of LIX solution from the inside sump was apparent (Photo No. 5) but the surrounding area is paved and impervious.

No spillage or leakage was noted around the outside kerosene drum storage area. The property on the NE corner of the site was heavily vegetated and built up about 3'. Site drainage appeared to be northeastward along the east fence line. A soil sample was collected in the runoff path which showed a two-fold increase of total chromium and a two hundred-fold increase of copper over background levels. The pH of the soil was found to be neutral to mildly alkaline (7.8).

ASSESSMENT

No major problems were found to be associated with this site. The process appeared to be recycle-intensive and does not generate wastes. The drum wash basin and tank storage areas were diked and underlain with concrete. The former drum storage area for chromium-bearing wastes was well-contained and is no longer used for this purpose. The site is no longer a storer or transporter of hazardous wastes. The elevated levels of metals found in soils

immediately off-site may be due to the firewater drainage from 1981 since chromium wastes are no longer handled and the soil was not found to be acidic for metals mobility.

Two areas of concern are the presence of about 15 small drums of chromic acid crystals yet to be disposed and minor seepage of process solvent to the outside paved area. A low hazard assessment has been given to the site.

ENGINEERING-SCIENCE, INC.
SITE INSPECTION TEAM
SITE SAFETY AND WORK PLAN

A. GENERAL INFORMATION

Site: Southern California Chemical Company, Inc. Hazsit No.: TX 06301
Location: 1000 N. First St. Garland, Texas 75040
Plan Prepared by: David B. Johnson Date: June 18, 1984
Approved by: _____ Date: _____
Objective(s): Document history of on-site waste management. Inspect areas where waste materials have been disposed of or stored. Find out what was analyzed by Key Laboratories on January 4, 1982 which they called a "pond" sample. Was this liquid, soil or ? and does it represent on-site disposal. Wastes on-site may be acidic and contain Fe, Cu, Cr, etc. Other wastes may contain ammonia.
Proposed Date of Investigation: June 21, 1984
Preliminary Assessment Hazard: High _____ Medium _____ Low _____
None _____ Unknown X

B. SITE/WASTE CHARACTERISTICS

Waste Type(s): Liquid X Solid _____ Sludge _____ Gas _____
Characteristic(s): Corrosive X Ignitable _____ Radioactive _____
Volatile _____ Toxic X Reactive _____
Unknown _____ Other _____ (Name) _____
Facility Description: The company is in the business of blending, storing, and transporting various industrial chemicals. The site covers approximately 1 acre. There is no known waste disposal, and the company has interim status for storage under RCRA.
Principal Disposal Method (type and location): No known on-site waste disposal.
Unusual Features (dike integrity, power lines, terrain, etc.) None
Status: (active, inactive, unknown): active
History: (worker or nonworker injury, complaints from public, previous remedial or enforcement action): _____

C. HAZARD EVALUATION

There is no known waste disposal at the site, and potential hazards are expected to be minimal. Follow all safety procedures outlined by the company. Gloves should be worn during any sampling activity to prevent skin contact.

D. SITE SAFETY WORK PLAN

PERSONAL PROTECTION

LEVEL OF PROTECTION: A B C D x

MODIFICATIONS: Wear resistant gloves to prevent skin contact during sampling.

SURVEILLANCE EQUIPMENT AND MATERIALS: Have well bailers available.

SITE ENTRY PROCEDURES: Contact facility personnel to arrange mutually acceptable inspection date.

DECONTAMINATION PROCEDURES: Follow standard procedures outlined in
"Generic Work Plan for RCRA 3012 Site Inspections"

Special Equipment, Facilities, or Procedures: None

<u>Team Member</u>	<u>Responsibility</u>
<u>Bob Davis</u>	<u>Lead Inspector</u>

E. EMERGENCY INFORMATION

LOCAL RESOURCES

Ambulance: _____

Hospital: _____

Poison Control Center: _____

Police: _____

Fire Department: _____

EPA Contact: Carlene Chambers (214) 767-6421

TDWR Contact: Daniel L. Scheppers (512) 475-⁶³⁷¹1344

Emergency Contacts:

Project Safety Manager: Dr. Barry North (303) 455-4427

Project Manager: David G. Johnson (512) 477-9901 892-3755

Deputy Project Manager: Steve Neeley (512) 477-9901

F. EMERGENCY ROUTES

HOSPITAL: _____

OTHER: _____

ENGINEERING-SCIENCE, INC.

924 GEMINI

HOUSTON, TEXAS 77058

LABORATORY ANALYSIS REQUEST

SUBMITTER: R H Davis Jr
ES Austin

DATE: 6/21/84

PHONE: 512/477-9401

REQUESTOR: R H Davis Jr

REQUESTED DATE
OF COMPLETION: 7/6/84

PROJECT #: 36410.03 TAWR-SI

SAMPLE TYPE: Soil
(industrial waste, groundwater, soil, solid waste, etc.)

REQUIRED ANALYSES & DETECTION LIMITS:

Surface Soil Samples - Analyze for Cu, Cr (VI), Cr (tot), pH

NOTES:

ENGINEERING—SCIENCE, INC.

924 GEMINI BOULEVARD, HOUSTON, TEXAS 77058 (713) 488-3004

Engineering-Science, Inc.
2901 N. Interregional
Austin, Texas 78722

LABORATORY RESULTS

Attn: Mr. Robert Davis

ES PROJECT NO. 8073.99

DATE SAMPLE RECEIVED 6-26-84

DATE DATA TRANSMITTED 8-03-84

CLIENT JOB REFERENCE _____

ES SAMPLE NUMBER	CLIENT IDENTIFICATION	pH S.U.	Cu ug/g	T-Cr ug/g	Cr ^{VI} ug/g
5495	¹ Background Soil	7.7	18.3	55	0.7
5496	¹ Surface Soil	7.8	4160	122	1.5

¹ Results reported on a dry weight basis



APPROVED FOR TRANSMITTAL


LABORATORY MANAGER

ABBREVIATIONS

Acid	Acidity (as Calcium Carbonate)	Mn	Manganese
Ag	Silver	Mo	Molybdenum
Al	Aluminum	Na	Sodium
Alk	Alkalinity (as Calcium Carbonate)	NH ₃ -N	Ammonia (as Nitrogen)
As	Arsenic	Ni	Nickel
Au	Gold	NO ₃ -N	Nitrate (as Nitrogen)
B	Boron	NO ₂ -N	Nitrite (as Nitrogen)
Ba	Barium	N-Org	Nitrogen Organic
Be	Beryllium	NR	Not Requested
BOD ₅	Biochemical Oxygen Demand	O&G	Oil and Grease
Br	Bromide	Pb	Lead
Ca	Calcium	Pd	Palladium
Cd	Cadmium	PO ₄ -O	Ortho Phosphate (as Phosphorus)
Cs	Cesium	T-P	Total Phosphorus (as Phosphorus)
Cl	Chloride	Pt	Platinum
Cl ₂	Chlorine residual	Rb	Rubidium
CN	Cyanide	Sb	Antimony
Co	Cobalt	Se	Selenium
COD	Chemical Oxygen Demand	Si	Silicon
Cond	Conductivity	Sn	Tin
Cr	Chromium	SO ₄	Sulfate
Cr ⁶	Chromium, Hexavalent	SS	Settleable Solids
Cu	Copper	Sr	Strontium
D-	Dissolved	TDS	Total Dissolved Solids
DO	Dissolved Oxygen	Te	Tellurium
F	Fluoride	TEP	Toxic Extraction Procedure
Fe	Iron	Ti	Titanium
Ga	Gallium	TKN	Total Kjeldahl Nitrogen
Hard	Hardness (as Calcium Carbonate)	Tl	Thallium
Hg	Mercury	TOC	Total Organic Carbon
I	Iodide	TS	Total Solids
K	Potassium	TSS	Total Suspended Solids
Li	Lithium	Turb	Turbidity
MBAS	Methylene Blue Active Substances (surfactants)	V	Vanadium
Mg	Magnesium	W	Tungsten
		Zn	Zinc
		φ	Phenol

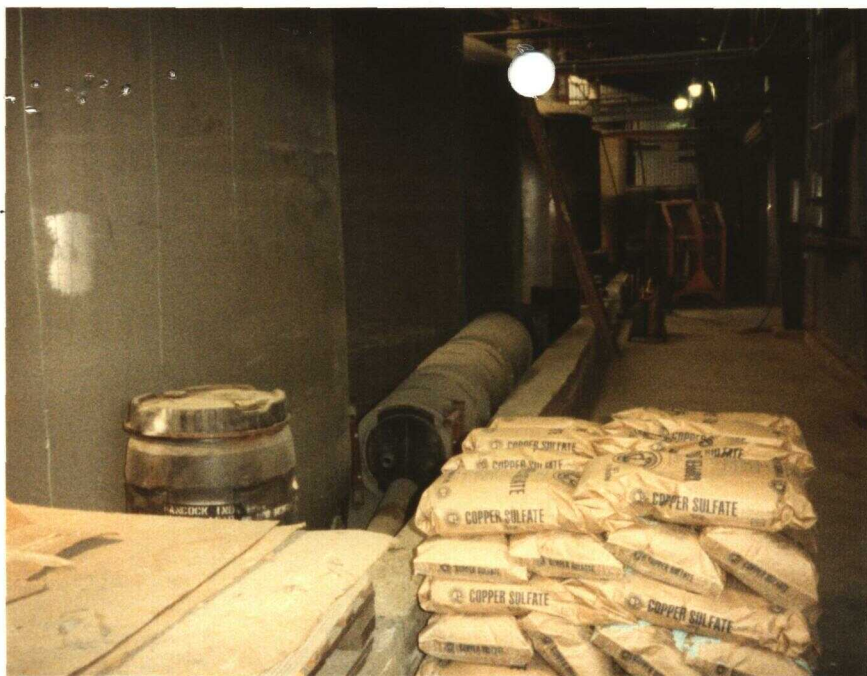
UNITS

g	gram	mL	milliliter
L	liter	ng	nanogram
m ³	cubic meter	pg	picogram
mg	milligram	μg	microgram
		NTU	Nephelometric Turbidity Units
		JTU	Jackson Turbidity Units

Notes

- All concentrations are totals unless otherwise noted. D- indicates dissolved concentration.
- Analyses performed by EPA methods or "Standard Methods for the Examination of Water and Wastewater" 14th Ed. unless otherwise noted.
- Detection limits and sensitivity vary with method of analysis and sample quantity.

[illegible]



①

Photographer / Witness

RH Davis / B. Dees, D. Scheppers

Date / Time / Direction

6/21/84 3:30 pm East

Comments: Diked process & storage
tanks inside warehouse

Photographer / Witness

RH Davis / B. Dees, D. Scheppers

Date / Time / Direction

6/21/84 3:25 pm South

Comments: Drum washing basin
and rinse sump (inside process
building)

②





③

Photographer / Witness

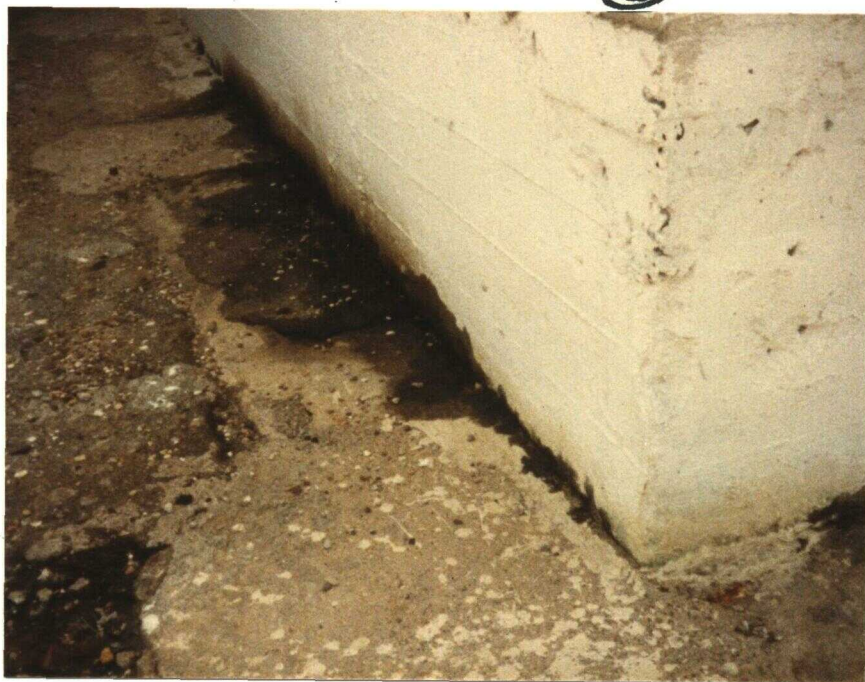
RH Davis / B. Dees, D. Scheppers

Date / Time / Direction

6/21/84 3:50 pm North

Comments: Discarded Drum storage
Area; some drums in bkgd
contain ~~Chromic~~ Chromic Acid crystals
pending disposal off-site.

⑤



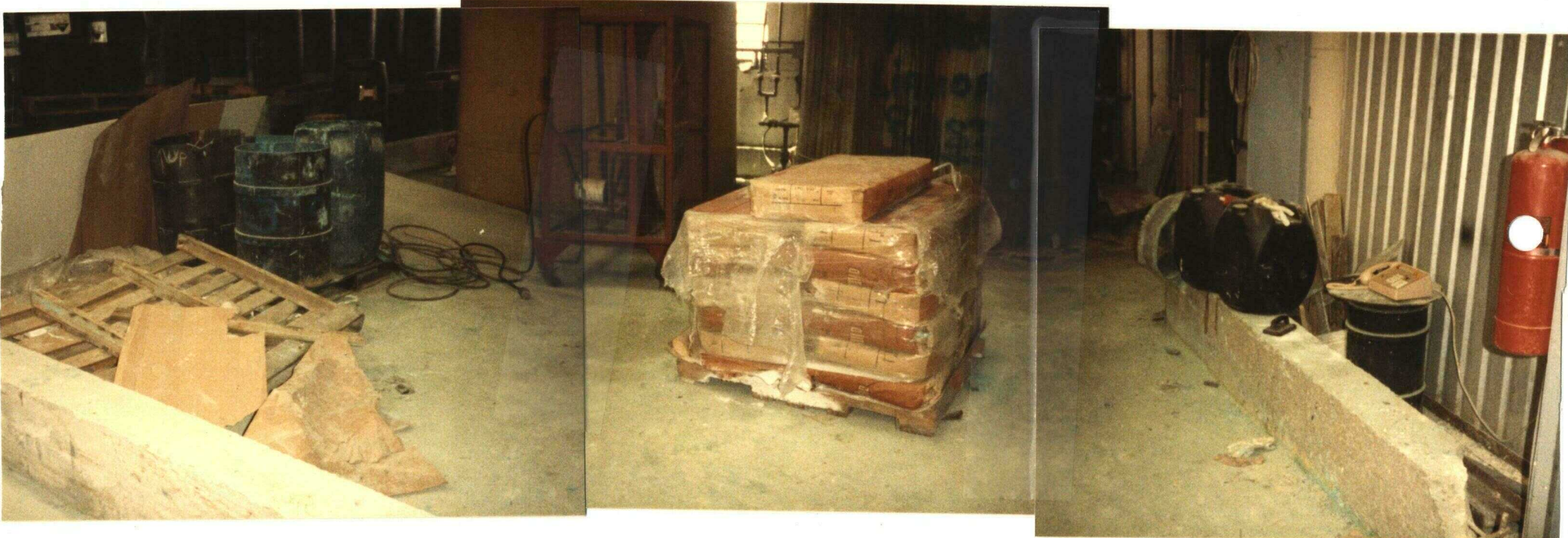
Photographer / Witness

RH Davis / B. Dees, D. Scheppers

Date / Time / Direction

6/21/84 4:20 pm West

Comments: Apparent solvent seepage
from LIX process bldg. Sump
for spillage is located on other
side of wall.



④

Photographer / Witness

RH Davis / B. Dees, D. Schepers

Date / Time / Direction

6/21/84 3:55pm North

Comments: Diked area once
used for drum storage of acidic
and chromium-bearing wastes
prior to offsite disposal



②

Photographer / Witness

RH Davis / B. Dees, Dan Scheppers

Date / Time / Direction

6/21/84 4:15 pm South

Comments: Outside Drum Storage
for kerosene solvent (raw mat'l)
and pallets. No spillage or
leakage apparent.



⑦

Photographer / Witness

Dan Scheppers / RH Davis

Date / Time / Direction

6/21/84 4:35 pm / South

Comments: Collection of bled
soil sample



⑧

Photographer / Witness

Dan Scheppers / B. Dees, RH Davis

Date / Time / Direction

6/21/84 4:45 pm West

Comments: Collection of surface
soil in runoff path immediately
off site.